

Docket No. 276447US2PCT

10/551377
JC12 Rec'd PCT 29 SEP 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Akinori TAIRA, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/JP04/03614

GAU:

FILED: Herewith

EXAMINER:

FOR: RADIO COMMUNICATION APPARATUS, TRANSMITTER APPARATUS, RECEIVER APPARATUS AND
RADIO COMMUNICATION SYSTEM

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Marvin J. Spivak

Registration No. 24,913

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 05/03)

Surinder Sachar

Registration No. 34,423

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| Form PTO 1449 (Modified) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY DOCKET NO. 276447US2PCT | | SERIAL NO. 51377 | |
| LIST OF REFERENCES CITED BY APPLICANT | | | | APPLICANT Akinori TAIRA, et al. | | | |
| | | | | FILING DATE Herewith | | GROUP | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
| | AA | | | | | | |
| | AB | | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO | | |
| | AO | 2000-188585 | 07/04/00 | JP(with Partial English translation) | | NO | |
| | AP | 2002-198878 | 07/12/02 | JP(with Partial English translation) | | NO | |
| | AQ | | | | | | |
| | AR | | | | | | |
| | AS | | | | | | |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
| | AT | Sumaru NIIDA et al., "Adaptive Modulation using Space-Time Block Code Matrix", The Institute of Electronics, Information and Communication Engineers, Gijutsu Kenkyu Hokoku, Vol. 101, No. 682, pages 31 to 36, February 27, 2002. | | | | | |
| | AU | Kei JI et al., "MIMO Channel Transmission with Antenna Selection and Optimum Power Allocation", 2003 Nen The Institute of Electronics, Information and Communication Engineers, Sogo Taikai Koen Ronbunshu, page 622, B-5-163, March 3, 2003. | | | | | |
| | AV | Yoshitaka HARA et al., "Weight Control Scheme for MIMO System with Multiple Transmit and Receiver Beamforming", The Institute of Electronics, Information and Communication Engineers, Gijutsu Kenkyu Hokoku, Vol. 102, No. 282, pages 33 to 40, RCS2002-152, August 23, 2002. | | | | | |
| | AW | Kazumi MIYASHITA et al., "Eigenbeam-Space Division Multiplexing (E-SDM) in a MIMO Channel", The Institute of Electronics, Information and Communication Engineers, Gijyutsu Kenkyu Hokoku, Vol. 102, No. 86, pages 13 to 18, RCS2002-53, May 17, 2002. | | | | | |
| | AX | Satoshi KUROSAKI et al., "100Mbit/s SDM-COFDM over MIMO Channel for Broadband Mobile Communications", The Institute of Electronics, Information and Communication Engineers, Technical Report of IEICE, pages 37-42 A-P2001-135, October 2001. | | | | | |
| | AY | Siavash M. Alamouti: "A Simple Transmit Diversity Technique for Wireless Communications", IEEE Journal on Select Areas in Communications, Vol. 16, No. 8, pages 1451-1458, October 1998. | | | | | |
| | AZ | Vahid TAROKH et al.: "Space-Time Block Coding for Wireless Communications: Performance Results", IEEE Journal on Selected Areas in Communications, Vol. 17, No. 3, pages 451-460, March 1999. | | | | <input type="checkbox"/> Additional References sheet(s) attached | |
| Examiner | | | | | Date Considered | | |
| *Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | |

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Docket No.: 276447US2PCT

STATEMENT OF RELEVANCY

- 1) References AO, AP and AT-AW have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) Reference have been cited in the corresponding Search Report. A copy of this reference is being submitted herewith.
- 3) References AX-AZ are discussed in the specification. A copy of these references is being submitted here with.
- 4) Reference is additional prior art known to Applicant. A copy of these references is being submitted herewith.